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Date of Deposit: April 13, 2004

Attorney Docket No: RONI-013/01US
(186980-2028)

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Pieter van Rooyen
and Danie van Wyk

Examiner: Unknown

Art Unit: Unknown

Serial No.: 10/606,371

Confirmation No.: Unknown

Filed: June 24, 2003

For: **REDUCED-COMPLEXITY ANTENNA SYSTEM USING MULTIPLEXED
RECEIVE CHAIN PROCESSING**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.97(b)**

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56,
Applicant(s) hereby submits the following information in conformance with 37 C.F.R.
§§1.97 and 1.98.

- ☒ Pursuant to 37 C.F.R. §1.98, a copy of each document cited in the attached Form PTO/SB/08 is enclosed.
- ☐ No copies of the publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No. ___ to which the above-identified application claims priority under 35 U.S.C. §120.
- ☐ No copies of any U.S. patents or U.S. patent application publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98 because this application was filed after June 30, 2003.
- ☒ Publications listed on the attached Form PTO/SB/08A were cited in a foreign search or examination report corresponding to foreign application serial no. PCT/US03/20017 and mailed on February 17, 2004.

- ☐ Enclosed is a copy of a non-English publication(s) _____. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
- ☐ Enclosed is a copy of a non-English publication(s) _____. English language publication ____ (copy enclosed) claims priority from this non-English publication.
- ☐ Enclosed is an explanation of non-English publication(s) ____ for which an English translation is not available.
- ☐ Enclosed is an English translation of non-English publication(s) ____ cited in the attached Form PTO/SB/08A.
- ☐ Enclosed is a copy of pending patent Application Serial No. _____.

This Information Disclosure Statement is filed within any one of the following time periods:

- ☐ within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);
- ☐ within three months from the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in this international application;
- ☒ before the mailing date of a first office action on the merits; or
- ☐ before the mailing of a first office action after the filing of a request for continued examination under 37 C.F.R. § 1.114.


It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08A to the undersigned.

Dated: April 13, 2004

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Respectfully submitted,
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By:

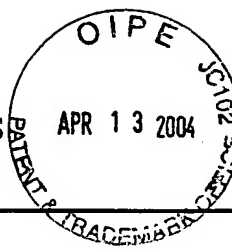

Sean R. O'Dowd
Reg. No. 53,403


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PTO/SB/08A (08-00)



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| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | |  Complete if Known | |
| | | | | Application Number | 10/606,371 |
| | | | | Filing Date | June 24, 2003 |
| | | | | First Named Inventor | Pieter van Rooyen |
| | | | | Group Art Unit | Unknown |
| | | | | Examiner Name | Unknown |
| | | | | Attorney Docket Number | RONI-013/01US |

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

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|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number.

² See attached Kinds of U.S. Patent Documents.

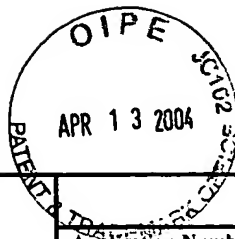
³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶ Applicant is to place a check mark here if English language Translation is attached.

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| Substitute for form 1449A/PTO | | | Complete if Known | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | Application Number | 10/606,371 | |
| | | | Filing Date | June 24, 2003 | |
| | | | First Named Inventor | Pieter van Rooyen | |
| | | | Group Art Unit | Unknown | |
| | | | Examiner Name | Unknown | |
| Sheet | 2 | of | 2 | Attorney Docket Number | RONI-013/01US |

| OTHER – NON PATENT LITERATURE DOCUMENTS | | | |
|---|-----------------------|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | | PCT/US03/20017 - International Search Report or the Declaration mailed February 17, 2004 | |
| | | Boche, H.; Schubert, M., <u>Space-time Rake receiver with optimal beamforming for the uplink of CDMA-based wireless systems</u> , Circuits and Systems, 2000. Proceedings. ISCAS 2000 Geneva. The 2000 IEEE International Symposium on , Volume: 3 , 2000, Page(s): 109 -112 vol.3 | |
| | | Kun Wang; Hongya Ge, <u>A space-time receiver for asynchronous DS-CDMA systems based on Kalman filter</u> , Signals, Systems and Computers, 2000. Conference Record of the Thirty-Fourth Asilomar Conference on , Volume: 1 , 2000 Page(s): 547 -551 vol.1 | |
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